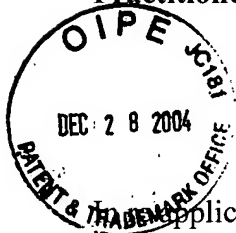


(PW)

Practitioner's Docket No. 57715/03-507

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: William R. RAUN, et al.

Application No.: 10/801,757

Filed: 03/16/2004

Confirmation No.: 3433

Title: Use of within-field-element-size CV for improved nutrient fertilization in crop production

Group No.: 3643

Examiner: Unknown

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

*(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)*

I hereby certify that, on the date shown below, this correspondence is being:

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(X) deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. § 1.8(a)

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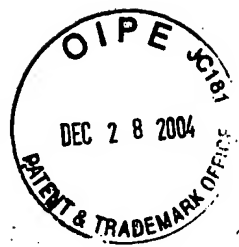
☐ facsimile transmitted to the Patent and Trademark Office, (703) _____ - _____.

Date: December 22, 2004

Signature

Luz C. Lopez

(type or print name of person certifying)



1. Preliminary Statements
2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
3. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
4. Copies of Listed Information Items Accompanying This Statement
5. Identification of Person(s) Making This Information Disclosure Statement

Section 1. Preliminary statements

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Forms PTO/SB/08A and/or 08B (formerly Form PTO-1449)

See attached.

Section 3. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application SN 10/195,138, filed on July 12, 2002.

This application also relies, under 35 U.S.C. § 120, on the earlier filing date of prior application SN 09/911,867, filed on July 24, 2001.

The references listed above on PTO Form 1449 were submitted to, and/or cited by, the Office in the prior applications and, therefore, are not required to be provided in this application.

Section 4. Copies of Listed Information Items Accompanying This Statement

Legible copies of all items listed in Forms PTO/SB/08A and/or 08B (substitute for Form PTO-1449) accompany this information statement.

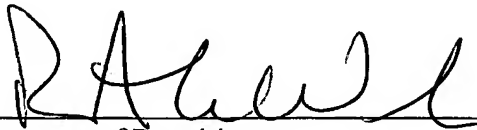
Section 5. Identification of Person Making This Information Disclosure Statement

The person making this certification is:

- a. the practitioner who signs below on the basis of the information in the practitioner's file.

Date: 12/22/04

Reg. No.: 36,050
Tel. No.: 918-599-0621
Customer No.: 22206

A handwritten signature in black ink, appearing to read 'R. Alan Weeks', written over a horizontal line.

Signature of Practitioner

R. Alan Weeks
FELLERS, SNIDER, BLANKENSHIP,
BAILEY & TIPPENS, P.C.
321 S. Boston Ave., Suite 800
Tulsa, OK 74103-3318



FORM PTO-1449 (Modified) INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Attorney Docket No.: 57715/03-507	
	Applicant(s): Raun et al.	
	Title: Use of within-field-element-size CV for improved nutrient fertilization in crop production	
	Serial No.: 10/801,757	Filing Date: 03/16/2004
	Group: 3643	Examiner: Unknown

U.S. PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Subclass
	AA	6,601,341	08/05/2003	Raun et al.	47	58.1
	AB	6,444,975	09/03/2002	Reusch	250	222.1
	AC	6,393,927	05/28/2002	Biggs et al.	73	866
	AD	6,366,681	04/02/2002	Hutchins	382	110
	AE	6,160,902	12/12/2002	Dickson et al.	382	110
	AF	6,062,496	05/16/2000	Kinter	239	462
	AG	6,052,187	04/18/2000	Krishnan et al.	356	364
	AH	5,837,997	11/17/1998	Beck et al.	250	227.11
	AI	5,833,144	11/10/1998	Kinter	239	462
	AJ	5,809,440	09/15/1998	Beck et al.	701	50
	AK	5,793,035	08/11/1998	Beck et al.	250	222.1
	AL	5,789,741	08/04/1998	Kinter et al.	250	226
	AM	5,768,823	06/23/1998	Nelson	47	1.7
	AN	5,764,819	06/09/1998	Orr et al.	382	110

Examiner Initials		Document No.	Date	Name	Class	Subclass
	AO	5,763,873	06/09/1998	Beck et al.	250	214 B
	AP	5,606,821	03/04/1997	Sadjadi et al.	47	1.7
	AQ	5,585,626	12/17/1996	Beck et al.	250	222.1
	AR	5,507,115	04/16/1996	Nelson	47	1.7
	AS	5,389,781	02/14/1995	Beck et al.	250	226
	AT	5,296,702	03/22/1994	Beck et al.	250	226
	AU	5,222,324	06/29/1993	O'Neill et al.	47	1.7
	AV	5,144,767	09/08/1992	McCloy et al.	47	1.7
	AW	4,952,229	08/28/1990	Muir	71	7
	AX	3,910,701	10/07/1975	Henderson et al.	356	39
	AY	3,670,963	06/20/1972	Stroebe et al.	239	77
	AZ	US 2003/0019152	01/30/2003	Raun et al.	47	58.1

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name (Inventors)	Class	<u>Translation</u> Yes / No
	BA	DE 198 60 306 A1	03/23/2000	Reusch	A 01 C 21/00	No
	BB	DE 199 13 971 A1	09/28/2000	Wollring	A 01 C 21/00	No
	BC	WO 01/45490 A1	06/28/2001	Aspelin et al.	A 01 C 21/00	

OTHER ART

Examiner Initial		(Including Author, Title, Date, Pertinent Pages, Etc.)
	BD ✓	LaRuffa, J.M., et al. 2001. "Optimum field element size for maximum yields in winter wheat, using variable nitrogen rates." <i>Journal of Plant Nutrition</i> . 24(2): 313-325.
	BE ✓	Lukina, E.V., et al. 2001. "Nitrogen fertilization optimization algorithm based on in-season estimates of yield and plant nitrogen uptake." <i>Journal of Plant Nutrition</i> . 24(6): 885-898.
	BF ✓	Patchen Weed Seeker™ PhD1620 Brochure, Undated.
	BG ✓	Patchen Weed Seeker™ PhD600 Brochure, Undated.
	BH ✓	Raun, W.R., et al. 2001. "In-season prediction of potential grain yield in winter wheat using canopy reflectance." <i>Agronomy Journal</i> . 93:131-138.
	BI	Sérelé, C.Z., et al. 2000. "Detection of corn nitrogen status from airborne vis-Nir imagery using artificial neural networks." Proceedings of Fifth International Conference on Precision Agriculture. Unnumbered.
	BJ	Solie, J.B., et al. 2000. "In-season N fertilization using an in-season estimate of potential yield." Proceedings of Fifth International Conference on Precision Agriculture. Unnumbered.
	BK ✓	Solie, J.B., et al. 1996. "Optical sensor based field element size and sensing strategy for nitrogen application." <i>Transactions of the ASAE</i> 39(6): 1983-1992.
	BL	Staggenborg, S.A., et al. 2000. "Predicting grain yield variability with infrared images." Proceedings of Fifth International Conference on Precision Agriculture. Unnumbered.
	BM	Stone, M.L., et al. 1996. "Use of spectral radiance for correcting in-season fertilizer nitrogen deficiencies in winter wheat." <i>Transaction of ASAE</i> . 39(5): 1623-1631.
	BN	Yang, C., et al. 2000. "Relationships between yield monitor data and airborne multispectral digital imagery." Proceedings of Fifth International Conference on Precision Agriculture. Unnumbered.

EXAMINER	DATE CONSIDERED
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance. Include copy of this form with next communication to applicant.